SHELUD'KO, V.M.; BACHMANOVA, N.I.; DOMNICH, M.O. [Domnych, M.O.]

Attestation of pharmacists in Odessa Province. Farmatsev.mhur.

17 no.4274-75 '62.

(ODESSA PROVINCE—PHARMACISTS)

DOMNICH, M.O. [Domnych, M.C.]; LUTSET, P.G. [Lutset, P.H.]

We are improving the qualifications of pharmacists. Farmatsev. zhur. 17 no.3:83-85 '62. (MIRA 17:10)

1. Kontrol'no-analiticheskaya laboratoriya aptechnogo upravleniya Odesskogo oblastnogo otdela zdravookhraneniya.

CHUKMASOVA, Mariya Alekseyevna; IAZARBV, Hikolay Mikhaylovich; DOMNICH, M.F., retsensent; BULGAKOV, N.I., spetsredaktor; MASLOVA, Ye.F., redaktor; YAROV, E.M., tekhnicheskiy redaktor

[Beer production] Proisvodstvo piva. Moskva, Pishchepromizdat, 1956.

(Brewing:) (MIRA 9:7)

DOMNICH, Ya.S., inshener.

Creative cooperation of engineers and worker inventors. Izobr. v SSSR 2 no.4:41 Ap '57. (MIRA 10:6)

FRIGHAN, E.V.; MARTSINOVSKIY, A.N.; DOMNICHEVA, N.A.

Optical anisotropy of macromolecules of polystyrene derivatives. Vysokom. soed. 2 no.8:1148-1153 Ag \*60.

(MIRA 13:9)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo

(Styrene)

DUMNICHEVA, VE V.

104-3-7/45

Veselovskiy, A.P., Engineer and Domnicheva, Ye.N. AUTHOR: TITLE:

The application of anti-oxidant additives to turbine oils. (Primeneniye antiokislitel'nykh prisadok k turbinnym maslam)

PERIODICAL: "Elektricheskiye Stantsii" (Power Stations), 1957, Vol. 28, No.3, pp. 22 - 24 (U.S.S.R.)

ABSTRACT: In the power system of Ivenergo work has been going on since 1940-41 to increase the service life of transformer and turbine oils by the use of adsorbents without stopping the equipment, the regeneration of transformer oil by adsorbents and solium phosphate and the use of anti-oxidant additives in turbine and transformer oils. As a result the consumption of oil has been much reduced, the reliability of the operation of the equipment has been increased and other benefits have followed. Until 1940 the oil in a turbine type AK-25-1 operating in a base load station was usually changed once a year. At every oil change the oil system was dismantled and carefully cleaned. In 1940 0.01% of additive BTV-1 was added to the oil. At the end of 3 years the neutralisation value of the oil was much less than normal but it contained some finely dispersed sludge and was replaced. However, not all oils are susceptible to additive BTM-1 as has been shown by oxidation tests. However, another additive BTM-8 has been tried at a

Card 1/3

104-3-7/45

The application of anti-oxidant additives to turbine oils. (Cor.t.)

concentration of 0.2% with very good oxidation test results. A disadvantage of additive PTW-8 is its liability to cause turbidity of the oil in service by interaction between the additive and certain unstable components of the oil. The oil has to be filtered with a filter press for several days in order to remove turbidity. During three months operation of the oil in a turbine the neutralisation value has remained unchanged. Oil containing additive BTM-1 operated unsatisfactorily in an SSW 35 MW turbo-generator set and had to be regenerated four times in the course of a year. The additive 2.6-ditertiary butyl-4-methile phenol was added to the oil and gave good results. The main advantage of this additive is that it is easily soluble in the oil, a disadvantage is the high concentration of 0.2% which is required compared with the other anti-oxidants that are used. It is concluded that the use of additive BTM-1 in a concentration of 0.01% in new turbine oils that are susceptible to it increases the service life of these oils by several times. It would be desirable to obtain inhibited type turbine oils direct from the refineries. Card 2/3 Alternatively the refineries should ensure that the oil is susceptible to the additive. The service life of turbine oil

104-3-7/45

The application of anti-oxidant additives to turbine oils. (Cont.)

is considerably extended by the use of 0.02% of additive BTM-8. This additive should be used immediately after the severest possible regeneration of the oil by an adsorbent. The deposit that forms in the oil in the first days after the addition of the additive should be removed by filtering the oil through a filter press until it is quite clear. The service life of turbine oil can be much increased by the use of alkylphenol additive the main advantage of this additive is its easy solubility and no deposits are formed when it is added to the oil. There are 3 figures and 2 Slavic references.

AVAILABLE: Library of Congress Card 3/3

DOMNICZ, A.

Isotopes in physiological researches.

P. 19. (WSZECHSWIAT) (Warszawa, Poland) No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

DOMNICZ, Antoni; JAGIELSKI, Aleksy; LITYNSKI, Tadeusz; LAZARSKA, Barbara; LAZARSKI, Roman

Contemination of Polish soils with strontium-90. Nukleonika 6 no. 2:135-138

1. Wyzsza Szkola Rolnicza, Krakow, Katedra Chemii Rolnej i Katedra Fizyki.

LITYNSKI, Tadeusz; DOMNICZ, Antoni

Possibilities and methods of stopping the accumulation of radioactive Sr<sup>90</sup> in plants. Postepy nauk roln 10 no.3:121-126 My-Je:63

DOMNIKOV, Ya.I., insh.

Remodeling the fastening of fuses in the IaSB-100 power box.

Energetik 8 no.2:16 F 160. (MIRA 13:6)

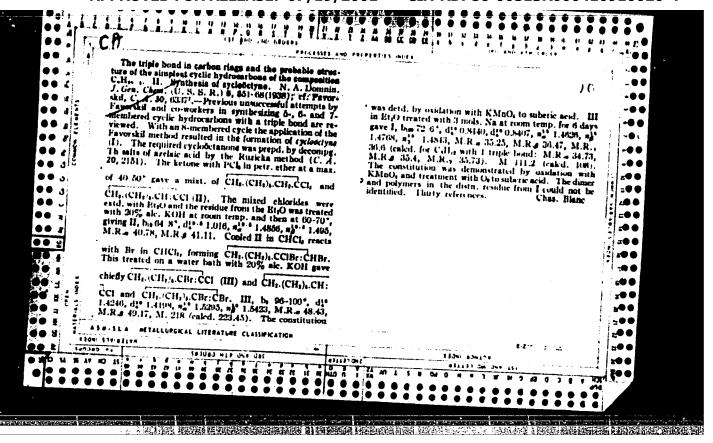
(Electric engineering—Equipment and supplies)

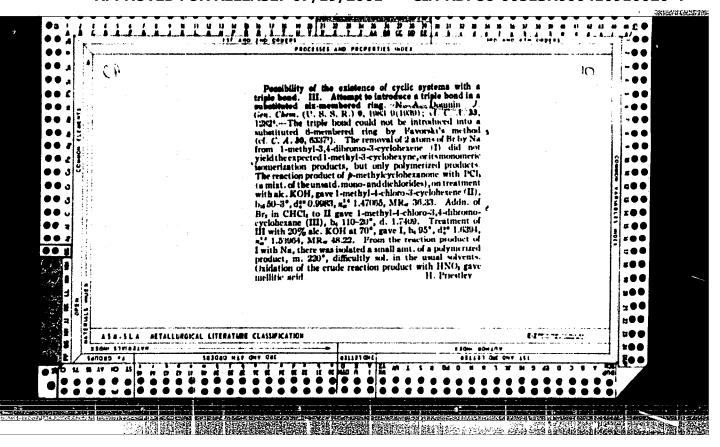
0.0000 78247 AUTHOR: Domnin, A. E. SOV/79-30-3-1/69 TITLE: A. E. Favorskiy (1860-1945). To the Centennial Anniversary of His Birthday PERIODICAL: Zhurnal obshehey khimii, 1960, Vol 30, Nr 3, ABSTRACT: This article commemorates the centenary of the birth of Alexey Evgrafovich Favorskiy, an eminent Soviet chemist, educator, editor of the foremost Soviet chemical Journal, and author of many scientific pacers. A brief outline is made of his research in organic chemistry, which includes 26 papers. A list of 38 related Soviet articles is also given. ASSOCIATION: Leningrad State University (Leningradskiy Gosudarst-PRESENTED: December 10, 1959 Card 1/1

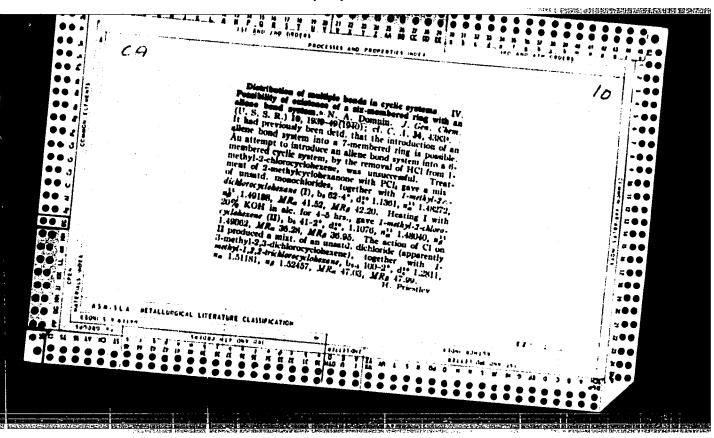
DOMNIN, F.A., insh.; MIKHNEVICH, G.A., insh.

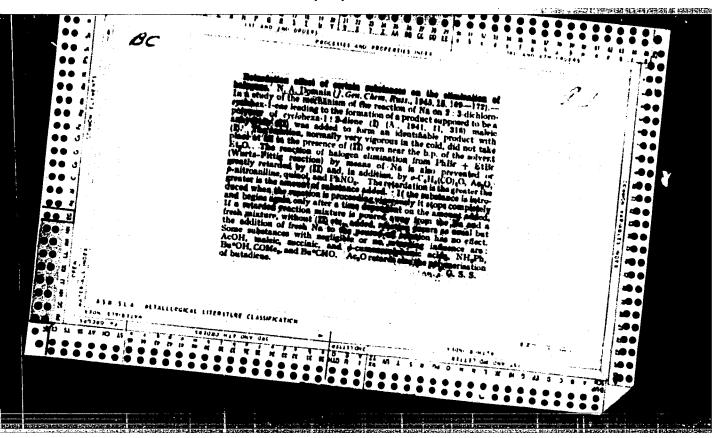
Selecting the parameters of antiskidding systems. Vest. TSNII MPS
(MIRA 18:7)
24 no.4:16-19 165.

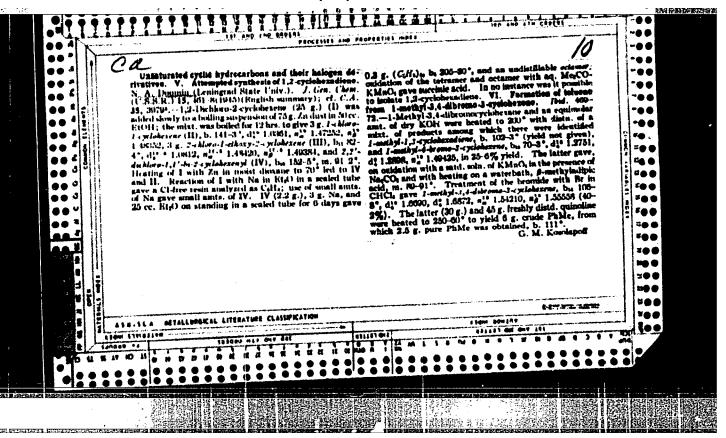
1. Nauchno-issledovatel'skiy institut tyashelogo elektromashinostroyeniya.







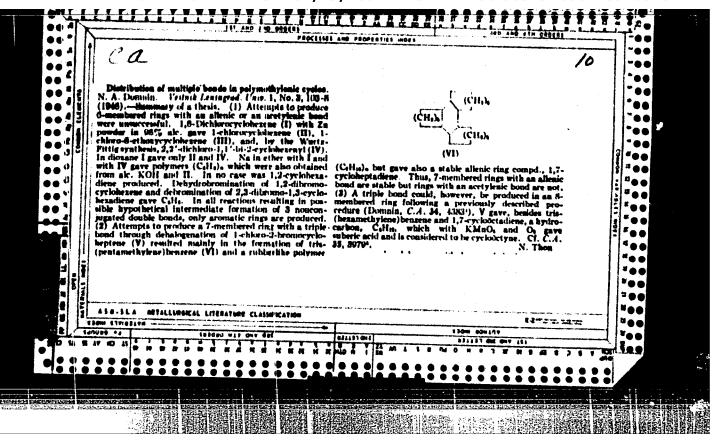


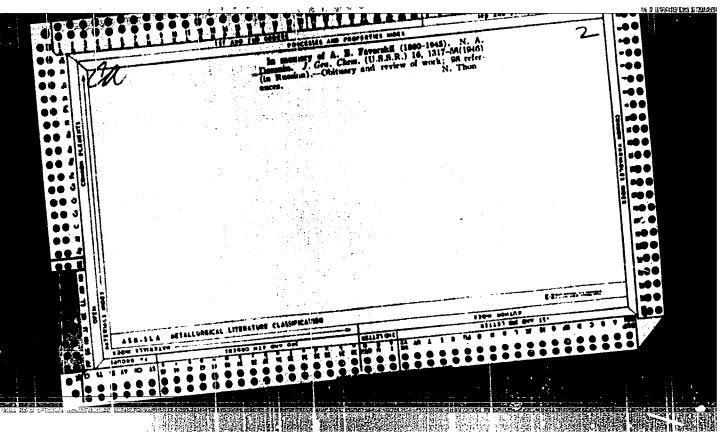


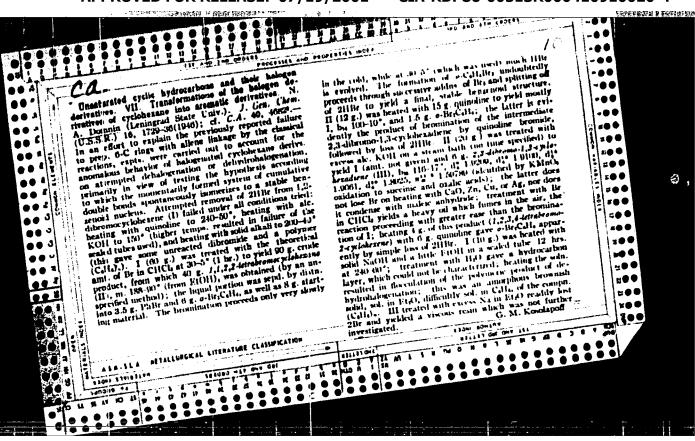
DOMNIN, N. A.

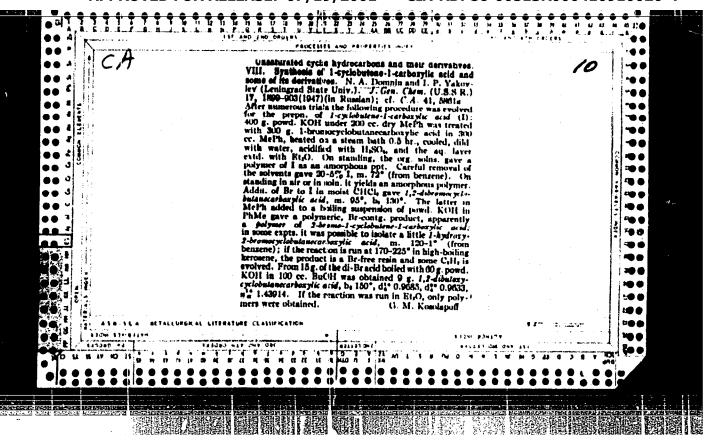
"Investigation in the field of Unsaturated Cyclic Compounds and of their Halogen Derivatives. VI Formation of Toluene from 1-Methyl-3,4-Dibromocyclohene-3." Domnin, N. A.

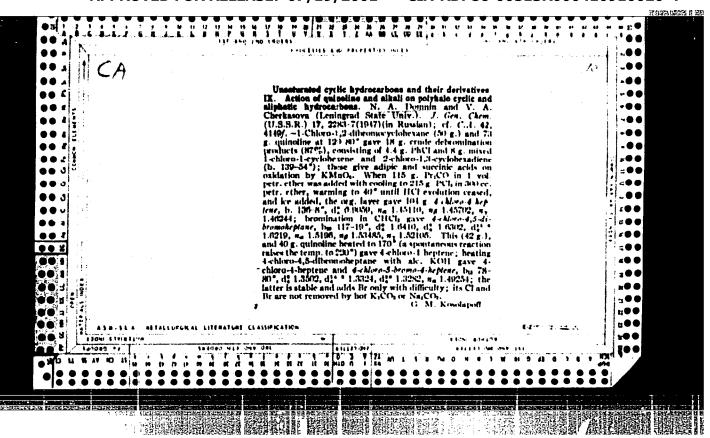
SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1945, Volume 15, no. 6.

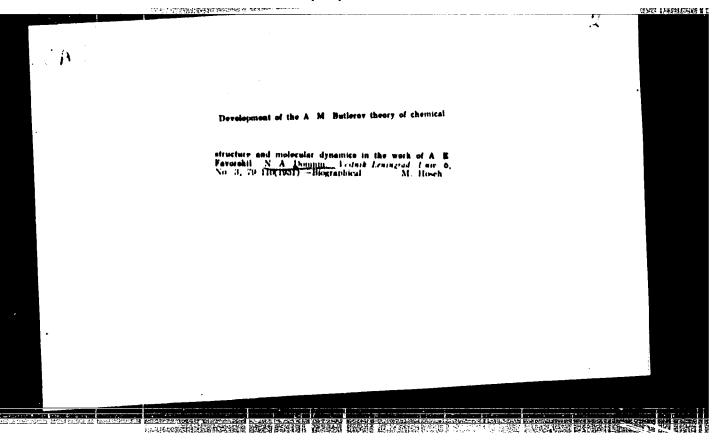


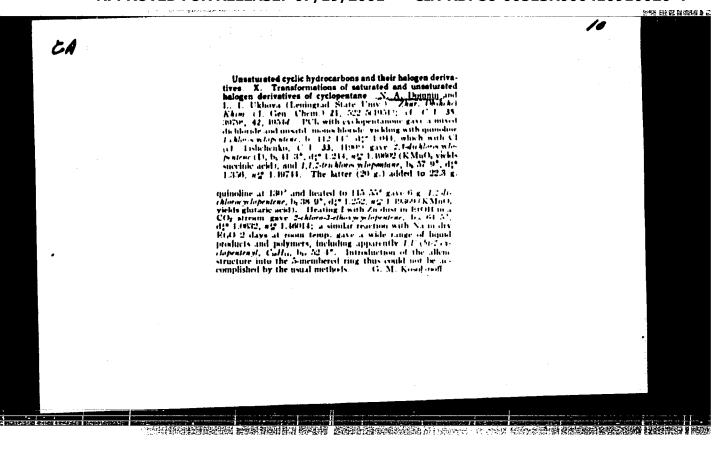








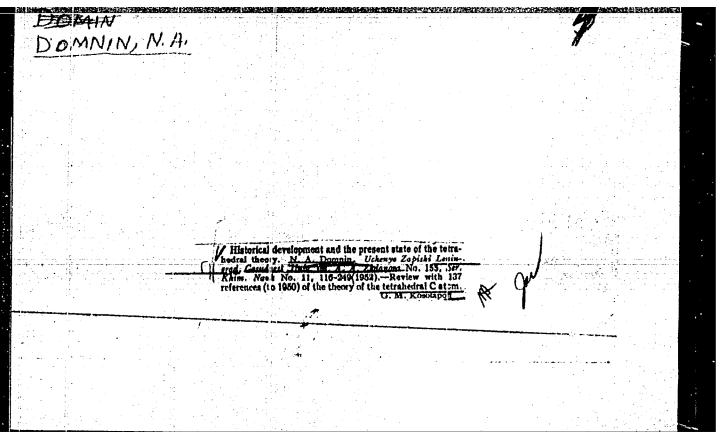




D'Harting Re Re	PA 194T28
	IN TYAIRO
that action of quinoline on 1, 2-dibromocyclo- hexane, quinoline on cyclobexadiens-1, 3 and hexabromoethane, and quinoline EEr on 194728  USSR/Chemistry - Halogenation (Contd)  cyclohexadiene-1, 3 and hexabromoethane yielded products contg resp 10-20%, 85-90%, and ~30% bensene, First stage of conversion of polyhalogen dearing of cyclohexane into aromatic compds on heating with quinoline is formation of 5-membered ring with conjugated double bonds.  194728	Chemistry - Halogenestigations in the Frestigations in the Frestigations and Their Hechanism of Conjugatechanism of Conjugatechanism Reactions, andreyeasova, S. F. Andreyeasova, S. F. Andreyeskiy, Leningrad State Obshch Khim" Vol X

- 1. DOMAIN, N. A.
- 2. USSR (600)
- 4. Chemical Structure
- 7. Development of the theory of chemical structure of A. M. Butlerov in the direction of spatial representations sterochemistry, Vest. Len. un., 7, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.



#### "APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410910020-4

N.A. DOMNIN, V.A. CHERKASOVA

May 52

USSR/Chemistry - Hydrocarbons

"Investigation in the Field of Unsaturated Cyclic Hudrocarbons and their Halogen Derivatives XII. The Mechanism of the Reaction of combined Halogenation and Dehalogenation," Lab im Favorskiy, Leningrad State U.

Zhur Obshch Khim, Vol 22, No 5, pp 897-900

It was established by absorption spectroscopy in the ultraviolet part of the spectrum that low-boiling (78-80.5°) fractions of the product of the reaction of cyclohexadiene-1,2 with quincline tetrabromide in the presence of quincline contain benzene, bromobenzene, and cyclohexadiene-1,2; the high-boiling fraction (152-158°) contains about 90% bromobenzene. In the reaction of cyclohexadiene -1,3 with quincline hydrobromide dibromide in the presence quincline, a mixt of products containing 90-95% benzene is formed. The reaction bet cyclohexadiene-1,2 and quincline dibromide in the presence of quincline forms a mixt of products containing about 20% benzene. The formation of quincline perbromates is the second stage of transformation of polyhalogen derivs of cyclohexane in arcmatic compds upon heating with quincline.

263 T. 40

DOMNIE, N.A.

Historical development and present state of the tetrahedral theory.

Uch. sap. Len. un. no.155:116-249 \*52. (MIRA 9:1)

(Chemistry, Organic) (Chemical structure)

DOMNIN, N.A.; CHERKASOVA, V.A.

Research in the field of unsaturated cyclic hydrocarbons and their halogen derivatives. Part 13. Mechanism of the reaction of conjugate halogenation and dehalogenation. Zhur.ob.khim. 23 no.10:1731-1735 0 53. (MLRA 6:11)

1. Leningradskiy Gosudarstvennyy universitet, Laboratoriya im. A.Ye.Favor-skogo. (Hydrocarbons) (Halogenation)

Card

Authors

Domnin, N. A., and Beletskaya, A. S.

Title

Investigation of unsaturated cyclic hydrocarbons and their halogen derivatives. Part 14. - Formation of bromobenzene, during the reaction of molecular bromine with 1, 2-dibromocyclonexene-1

Per:lodical

Zhur. Ob. Khim., 24, Ed. 6, 1017 - 1019, June 1954

Abstract

Experiments showed that the reaction of molecular bromine with 1, 2-dibromocyclohexene-1, in comparatively smooth conditions, results in the formation of a mixture of products, consisting of 1, 1, 2, 2-tetrabromocyclohexane, o-dibromobenzene and bromobenzene (8-10%). The presence of bromobenzene in the mixture, was proven without any doubt, with the aid of absorption spectroscopy in the ultraviolet part of the spectrum. Two possible processes, leading to the formation of bromobenzene, are discussed. Three references; I USSR since 1912.

Institution : State University, Leningrad

Submitted

: January 21, 1954

DOMNIN NA

BESK/Chemistry

llard 1/1 Pub. 151 - 30/42

Authors Domnin, N. A., and Beletskaya, A. S.

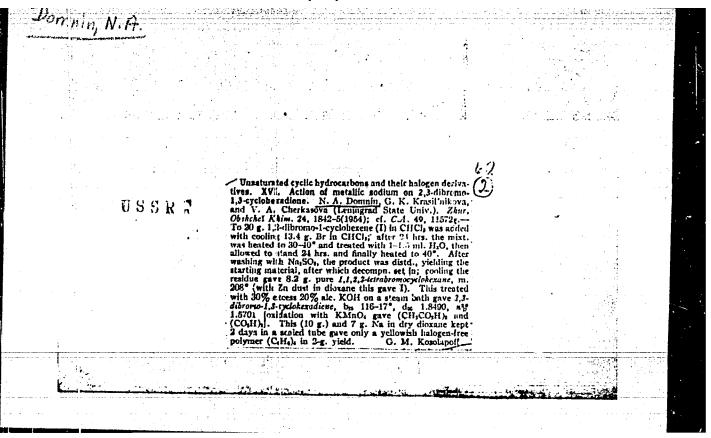
Title Investigation of unsaturated cyclic hydrocarbons and their halogen derivatives. Fart 15 .- Reaction of metallic sodium with 1,4-dibromocyclohexene-2

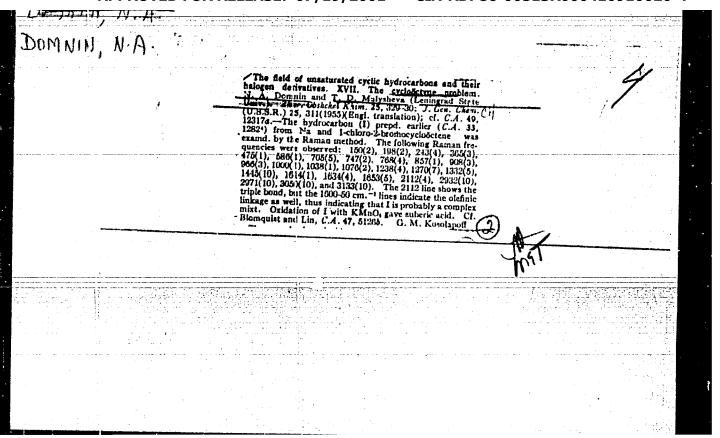
Poriodical Zhur. ob. khim. 24/9, 1636-1638, Sep 1954

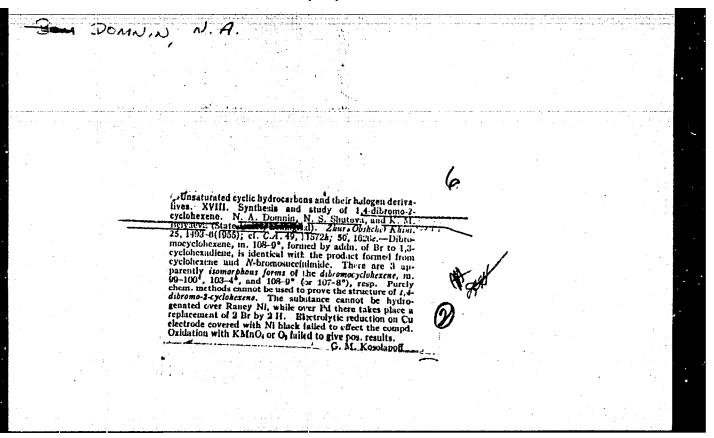
Alekract The conversions taking place during the reaction of metallic sodium with 1,4-dibromocyclohexene-2 were investigated. The product formed during such reaction and its chemical properties are briefly described. A study of the reaction between 1,4-dibromocyclohexene-2 and zinc dust brought negative results. At equal possibilities of forming conjugated and isolated bonds in a six-membered ring, the conjugated bonds were found in predominance. Eight references: 4-USSR; 2-USA and 2-German (1903-1929).

Institution : State University, Leningrad

Submitted : April 5, 1954







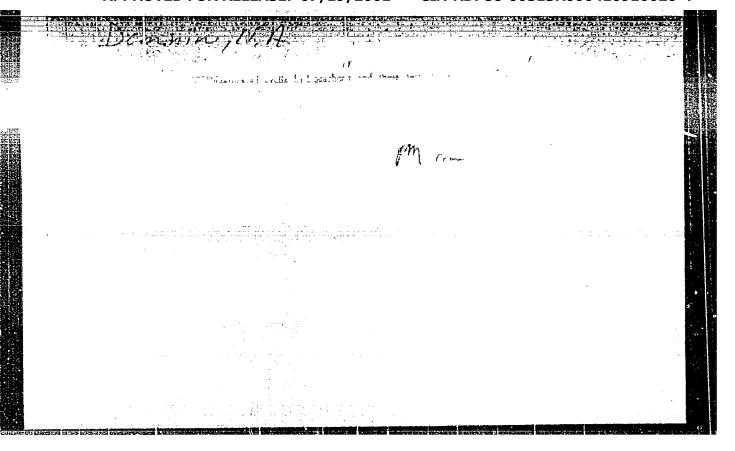
DOMINA N. A.

AREJEOV, A.Ye., chlen redaktsionnoy kollegii; VENUS-DANILOVA, E.D., chlen redaktsionnoy kollegii; DANILOV, S.N., redaktor; DOUTE, F.A., chlen redaktsionnoy kollegii; ZAMIAROVA, A.I., sekretar; KAVERSEVA, Ye.D., chlen redaktsionnoy kollegii; KIOCHKO, M.A., chlen redaktsionnoy kollegii; KEEEDINSKIY, V.V., chlen redaktrionnoy kollegii; MISHCHEELKO, K.P., chlen redaktsionnoy kollegii; SHCHUKAREV, S.A., chlen redaktsionnoy kollegii.

[Collection of articles in general chemistry] Sbornik statei po obshchei khimii. (MERA 7:5)

1. Akademiya nauk SESR. (Chemistry)

Unsaturated cyclic hydrocarbons and their derivatives.  XIX. Synthesis of 1.2 3 tribromocyclohexane and its reaction with guingline.  A homoly and M. I dente to the least of	hood
indin., followed by addit of 61.2 g. Cyclological Physics of 1.5.741  Johnne Lyclological (II) bis 57.5-8, ds 1.3000, at 1.5.741  (with KMnO <sub>4</sub> this gave glutaric acid). This (4.6 g.)  beated with 11.5 g. quivoline to 140-50°, then to 170 80°  give 1 g. L.3-cyclological dense, b. 70 80°, ds. 0.841 at 1.  1.4743. I (10.1 g.) in CCl. was treated with a large line with fee conting yielding 20 g. L.3-brid none a non-right.  1.45.5 7° ds. 2.1352 m <sup>-1</sup> feets. There is g. continued.	
d manne at information with all gain processes with brombles. The formation of Cells in the traction with quinoline is netword to excur through bromes, which undergoes an allytic rearrangement to 5 brome-1,3-cyclohexadiene, which then loses HBr	
Leningradokhing i posisteranting universitet (Cyclehepane) (Quenaline)	



DomiNIN, N.A. DONNIN, N.A.; CHERKASOVA, V.A.

> Unsaturated cyclic hydrocarbons and their derivatives. Part 20: Transformation of methylcyclohexanes and methylcyclohexadienes into dinitrotoluenes under the action of a nitrating mixture. Zhur.ob.khim. 26 no.6:1616-1618 Je '56. (MIRA

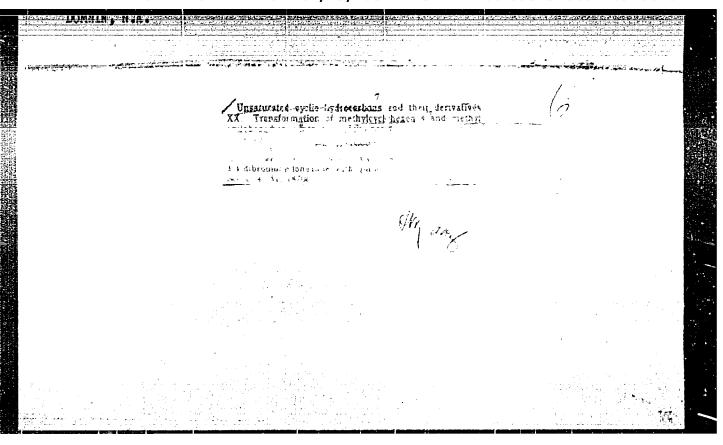
1.Leningradskiy gosudarstvennyy universitet.
(Toluene) (Cyclohexadiene) (Cyclohexane)

DOMNIN, N.A.

DOMNIN, N.A.; CHERKASOVA, V.A.

Unsaturated cyclic hydrocarbons and their derivatives. Part 21:
The reaction of 1-methyl-3,4-dibromocyclohexane with quinoline.
Zhur.ob.khim. 26 no.6:1618-1620 Je '56. (MIRA 11:1)

1.Leningradskiy gosudarstvennyy universitet.
(Cyclohexane) (Quinoline)

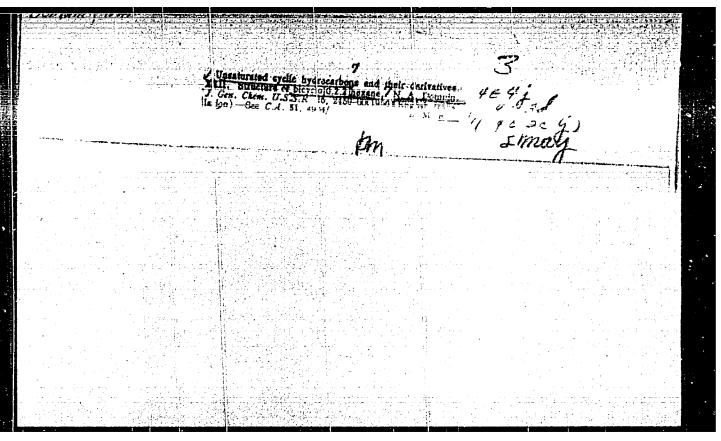


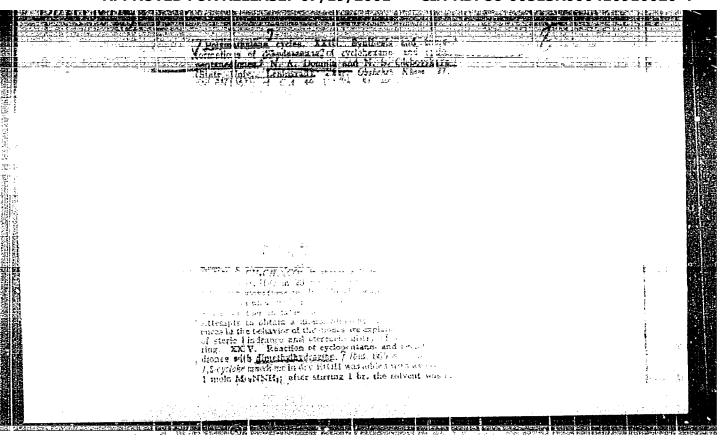
#### DOMNIH, N.A.

Investigations in the field of unsaturated cyclic hydrocarbons and their derivatives. Part 22; On the sterio structure of bicyclo-(0,2,2)-hexane. Zhur. ob. khim. 26 no.8;2200-2201 Ag 156.

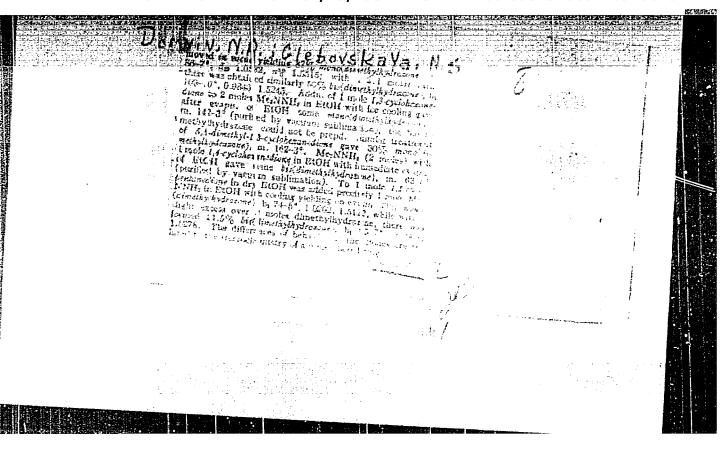
(MIRA 10:11)

1. Leningradskiy gosudarstvennyy universitet.
(Bicyclohexane)





"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000410910020-4



#### DOMNIN, N.A.: GLEBOVSKAYA, N.S.

Research data on polymethylene rings. Part 24: Reaction of cyclopentaneand cyclohexanediones with dimethylhydrasine. Zhur. ob. khim. 27 no.3: 665-668, Mr 157. (MIRA 10:6)

1. Leningradskiy gosudarstvennyy universitet.
(Cyclopentanedione) (Cyclohexanedione) (Hydraxine)

DUNNIN, N.A.

DOMNIN WAS CHERKASOVA, V.A.

Research in the field of unsaturated cyclic hydrocarbons and their halide derivatives. Part 15: Reaction of 1,3-methylcyclo-hexadiene with hexabromoethane and quinoline. Zhur.ob.khim. 27 no.5:1214-1:15 My 57. (MLRA 10:8)

1.Leningradskiy gosudarstvennyy universitet.
(Cyclchexadiene) (Sthane)
(Quinoline)

DONNIN, N.A.; WANG-Hau"-K'UN; GIMBOVEKAYA, N.S.

Research in the field of polymethylene cycles. Part 27: Reactions and products of 1,4-cyclohexanedione and acetonylacetone with hydrasine and dimethylhydrasine. Zhur. ob. khim. 27 no.6:1512-1516 Je '57.

(MIRA 10:8)

1. Leningradskiy gosudarstvennyy universitet.
(Cyclohexanedione) (Hydrasine) (Pentanedione)

DOMNIN, N.A.; ZELENINA, M.N.; GLEBOVSKAYA, N.S.

Hesearch in the field of polymethylene cycle. Part 27: Reactions and products of 1,4-cyclohexanedione and acetomylacetone with hydraxine and dimethylhydraxine. Zhur. ob. khim. 27 no.6:1516-1518 Je '57.

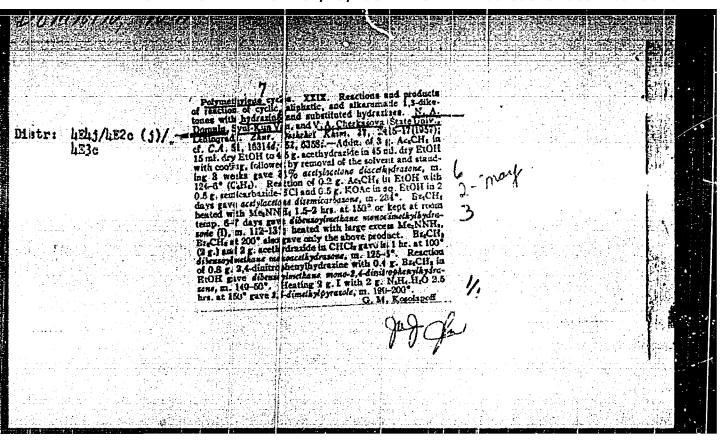
(MIRA 10:8)

1. Leningradskiy gosudarstvennyy universitet.
(Cyclohexadione)(Hydrazine) (Hexanedione)

DOMNIN, N.A.; ZELENINA, M.M.; GLEBOVSKAYA, N.S.

Studies in the field of polymethylene cycles. Part 28: Investigation of the products of reactions of acetonylacetone with hydraine. Zhur. ob. khim. 27 no.8:2088-2093 Ag 157. (MIRA 10:9)

1. Leningradskiy gosudarstvennyy universitet.
(Hexanedions) (Hydrasins)



Secretary, N.A.

USSR/General Problems. Methodology. History. Scientific

Institutions and Conferences. Instruction. Questions Concerning Bibliography and Scien-

tific Documentation

Abs Jour Ref Zhur-Khimiya, No 3, 1958, 6808

Author N. A. Domnin Inst

Title Fundamental Trends and Summary of Chemistry

Development in USSR in Forty Years

Orig Pub Zh. obshch. khimii, 1957, 27, No 10, 2609-2629

Abstract : Bibliography with 48 titles.

Card 1/1

SOV/79-28-8-14/66 Domnin, N. A., Cherkasova, W. A. AUTEC.::

Investigations Concerning the Folymethyl Cyclic Compound. TIPLE:

(Isaledovaniya v oblasti polimetilenovýkh teiklov) MAXI. The Decomposition Reaction of 1-Chloro-1,2-Dibromocyclohexane with Quinoline (XXXI. Vzeimodeyetviye 1-khice-

1.2-dibromtsiklogeksana s khinolinom)

Whurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp.2064-2067(199R) PERICUIONE:

The authors previously showed that the decomposition reaction ABSTRACT: of 1-chlore-1,2-dibromocyclohexane with quinoline yields chlorobenzene (Ref 1). Its presence was proven by the nitro-

tion method. The literature indicated that the nitro-substituted compounds of benzene and its homologs are aten formed by the nitration of the unsaturated cyclohexane hydrocarbons (Ref 2). The authors later found that 2,4-dimitrotoluene can be synthesized by nitrating methyl cyclohexene and by nitrating mothyl cyclohexadiene-1,3 in a mixture which contains no toluene (Ref 3). As a result of these observations it was necessary to reject the classical nitration methods as means

of proving the structures of aromatic hydrocarbons and their helogen derivatives, and also for those cases where unsaturated Uard 1/5

50V/79-28-8-14/66

Investigations Concerning the Polymethyl Cyclic Compounds. VIXI. The Decomposition Reaction of 1-Chloro-1,2-Dibromocyclohexane ith fuinoline

cyclohaxene and cyclohexadiene hydrocarbons and their halogen derivatives are present the mixture. The reliable methods of absorption spectroscopy in the ultraviolat region ( of 4) were used to investigate the structure of the products of halogenating and dehalogenating the unsaturated cyclohexane hydrocarbons and the polyhalogen derivatives of cyclohexane. These methods showed that the decomposition reaction of 1-chloro-1,2-dibromocyclohexane with quinoline yields chlorobenzene (46 %) in addition to 1-chlorocyclohexane-1 and 2-chlorocyclohexadiene-1,3 when the fraction boiling at 152-156 contains chlorobenzene, benzene (14 %) and nome of clohexadiene-1,3. A mechanism is suggested for the synthesis of benzene and cyclohexadiene-1,3 from 1-chloro-1,2-dibromocyclohexane. There are 1 figure and 8 references, 7 of which are Soviet.

ASCOCIATION: Uard 2/3

Leningradskiy gosudarstvennyy universitet (Leningrad State University)

507/79-28-8-14/66 Investigations Concerning the Polymethyl Cyclic Compounds. XXXI. The Decomposition Reaction of 1-Chloro-1,2-Dibromocyclohexane Vith Quinoline

SUBMITTED: July 20, 1957

Card 3/3

SOV / 79-28-6-7/63

AUTHORS:

Domnin, N. A., Dyurnbaum, V. I., Cherkasova, V. A.

TITLE:

Investigations in the Field of Polymethylene Cycles (Issledovaniya v oblasti polimetilenovykh tsiklov) XXX. Conversion of Diacetyl and Dibenzoyl With Dimethylhydrazine (Vzaimodeyst-

viye diatsetila i dibenzoila s dimetilgidrazinom)

PERIODICAL:

Zhurnal obshohey khimii, 1958, Vol. 28, Nr 6, pp. 1469-1477

(USSR)

ABSTRACT:

Of the dihydrazines synthesized by Domnin and his collaborators (Refs 1 - 3) those of cyclopentadione-1,2 and cyclohexadione-1,2 are the least stable. These facts were explained by the authors by proceeding from the structure of the five- and six-membered rings as well as from the spatial difficulties dependent on the presence of =N-NH<sub>2</sub> and =N-N(CH<sub>3</sub>)<sub>2</sub> group; in the cyclic dihydrazones. For a further generalization it was necessary for the purpose of comparison to carry

out the investigation of the conversion of the most simple aliphatic and aliphatic-aromatic 1,2-diketones with dimethylhydrazine. For this purpose the reaction of diacetyl and dibenzoyl with dimethylhydrazine was used. The authors used

Card 1/3

JOV/79-28-6-7/63 Investiations in the Field of Polymethylene Cycles. XXX. Conversion of Diacetyl and Dibenzoyl With Dimethylhydrazine

> only the hydrazine in place of the latter (Ref 4). It must be noticed that, as had been shown already several times, the conversions of various diketones with hydrazine and dimethylhydra zine take a completely different course with different products being formed. The reactions of diacetyl and dibenzoyl with dimethylhydrazine are shown in both mentioned reaction processes. Thus the bis-dimethylhydrazone of discetyl was for the first time synthesized and characterized. Dibenzoyl reacts only with one molecule of dimethylhydrazine and on this occasion forms two spatial  $\alpha$  and  $\beta$ -forms of monodimethylhydrazone. It was found that benzil does not form bis-dimethylhydrazones and that the carbonyl group of the monodimethylhydrazone reacts neither with hydroxylamine nor with hydrazine and dimethylhydrazine. In the case of a conversion of monodimethylhydrazone of benzil with hydrazinhydrate a benzilhydrazone results. The monodimethylhydrazone of benzil on heating converts to the 1-methyl3,4-diphenylpyrazole. There are 5 figures, 2 tables, and 10 references, 6 of which are Soviet.

Card 2/3

SOV/79-28-6-7/63

Investigations in the Field of Polymethylene Cycles. XXX. Conversion of Diacetyl and Dibenzoyl With Dimethylhydrazine

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: July 20, 1957

1. Methyl hydrazines -- Chemical reactions

Card 3/3

#### DOMNIN, N.A.: CHERKASOVA, V.A.

Polymethylene rings. 32: Conversions of cyclohexane in conjugated halogenation and dehalogenation reactions. Zhur. ob.khim. 28 no.9:2334-2338 S 58. (MIRA 11:11)

1. Leningradskiy gosudarstvennyy universitet.
(Cyclohexane) (Halogenation)

AUTHOR:

Domnin, N. A.

507/79-28-12-1/41

TITLE:

Stepan Nikolayevich Danilov - On the Occasion of His 70th Birthday and 45th Anniversary of Scientific and Pedagogic Activity (Stepan Nikolayevich Danilov - k semidesyatiletiyu so dnya rozhdeniya i sorokapyatiletiyu

nauchnoy i pedagogicheskoy deyatel'nosti)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 12,

pp 3157-3162 (USSR)

ABSTRACT:

S. N. Danilov's activity is based on the acknowledged scientific ideas developed by Butlerov and Favorskiy. On the other hand the connection of his theoretical work with the requirements of practical life, the development of new and modern problems of science and technology is characteristic of him as a chemist. Soon after he had finished his studies he became assistant at the laboratory of A. Ye. Favorskiy, and in 1924 he began his lectures on the fundamentals of organic chemistry, especially on heterocyclic compounds and carbohydrates. The close relation between theory and practice as demonstrated by him was the reason for his advancement to the position of a Docent and Head of the

Card 1/3

Stepan Nikolayevich Danilov - On the Occasion of His SOV/79-28-12-1/41 70th Birthday and 45th Anniversary of Scientific and Pedagogic Activity

Department of Synthetic Fibers and the Processing of Cellulose at the Leningrad Chemotechnological Institute. Thus, he became the teacher of a great number of specialists in this important chemical field. He stayed in this position for 28 years. In 1948 he took over the chairs of the Structure of Organic High-Molecular Compounds at the Leningrad State University. At home and abroad he is known as the author of a great number of scientific treatises. The subject of his most important papers is the investigation of the isomeric transformations of extremely reactive organic compounds, as aldehydes, oxy-aldehydes, sugar etc. He devoted special attention to the effect of acid, alkaline and salt catalysis in isomeric transformations of carbonyl and oxy-carbonyl compounds, especially under conditions of simultaneous acid-alkaline reaction. The investigation of the isomerization of halogen aldehydes into acids offered him the possibility of correcting many papers written by other scientists. The results of the transformations of oxy-aldehydes and the

Card 2/3

Stepan Nikolayevich Danilov - On the Occasion of His SOV/79-28-12-1/41 70th Birthday and 45th Anniversary of Scientific and Pedagogic Activity

isomerization of oxy-ketones and chloro ketones were for the first time polarographically proved (Refs 79, 93-95). His numerous determinations in the field of carbohydrates in connection with the above-mentioned work are of theoretical interest and practical importance. Danilov published monographs and critical essays on the molecular regroupings (Refs 101, 129, 130) and on the role played by the intermediate compounds in the isomeric transformations, as well as on the sugar chemistry in Russia (Ref 136). It must be noticed that his papers on cellulose, chitin, alginic acid, and their derivatives (Refs 82, 104, 117, 141) as well as on viscose and cuprammonia solutions in spinning have been incorporated into textbooks.

Card 3/3

SOV/54-59-2-8/24 Stepan Nikolayevich Danilov, an Outstanding Representative of the Butlerov-Favorskiy School (Vydayushchiyaya predstavitel) she not Butlerove-Favorskogo, Stepan Nikolayevich Danilov). On Bhkoly Butlerove-Favorskogo, Stepan Nikolayevich Danilov). On Scientific-nedagoed Domnin, N. A. His 70th Birthday and 45th Anniversary of Scientific pedagogic 5(0) and Public Activity (K semidesystiletiyu so dnys rozhdeniya i AUTHOR: Bolokabastiletian usnchuo-beqaadogicheskoa i opsychestaeuroa TITLE: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, deyateli nosti) In January 1959, the Chemical Society celebrated the 70th 1959, N: 2, pp 63-65 (USSR) birthday and 54th anniversary of scientific, pedagogic, and Bocial activity of Stepan Nikolayevich Danilov, outstanding PERIODICAL: Boientist (chemist), Corresponding Member, AS USSR, Professor SCIENTIST (CHEMIST), COFFESDORULING MEMOEF, AND UNDER, FLUXESON OF the Chemical Department of Leningrad University for many years. He was a representative of the famous scientific ABSTRACT: ohemical school of Butleroy-Favorskiy. As a man of wide reading and leading scientist, he successfully developed outstanding and leading scientists. ing ideas and continued the remarkable tradition of this school Card 1/3

Stepan Nikolayevich Danilov, an Outstanding Representative of the Butlerov-pedagogic and Social Activity

Sov/54-59-2-8/24

Pedagogic and Social Activity

for 45 years. Characteristic of his activity over many years was the close connection of his theoretical work with practical problems, and the development of new and actual problems of science and engineering. He was born in Vitebsk on January 6, 1889. There he attended the secondary school until 1908, entered then the Physical-mathematical Department of Petersburg University, and finished his studies there in 1914. Then he worked in the laboratory of A. Ye. Pavorskiy. In 1915, he was appointed assistant. Since 1930 he worked as a teacher at was appointed assistant. Since 1970 he worked as a teacher a the University. He conducted with great success the diploma works and the scientific works of the students. His lectures were distinguished by originality and a high theoretical standard. His principal interest of scientific activity was dedicated to the isomeric conversions and the detection of this conversion mechanism. He obtained much new and important material for the development of syntheses of new substances. He also succeeded in synthesizing many new organic compounds. From the experience of his investigations he directed himself

Card 2/3

Stepan Nikolayevich Danilov, an Outstanding Representative of the Butlerov-Favorskiy School. On His 70th Birthday and 45th Anniversary of Scientific-

to the study of highly molecular compounds. He carried out all his scientific work with great success. The author wishes him many years of life and further successful activity for the benefit of the Russian people. His principal papers are listed.

SUBMITTED:

September 17, 1958

Card 3/3

DOMNIN, N.A.

BR

PHASE I BOOK EXPLOITATION

SOV/4583

Leningrad. Universitet

Voprosy teorii stroyeniya organicheskikh soyedineniy (Problems in the Theory of the Structure of Organic Compounds) [Leningrad] 1960. 239 p. Errata slip inserted. 3,725 copies printed.

Sponsoring Agency: Leningradskiy ordena Lenina Gosudarstvennyy universitet im. A.A. Zhdanova.

Resp. Ed.: T.A. Favorskaya; Ed.: V.D. Piastro; Tech. Ed.: S.D. Vodolagina.

PURPOSE: This collection of articles is intended for chemists and organic chemists.

coverage: The collection is concerned with the scientific legacy of A.Ye. Favorskiy, and includes discussions of his theoretical views and their evolution in connection with the development of theoretical organic chemistry. The articles review problems on the structure, reactivity and transformations of various classes of organic compounds: unsaturated acyclic and cyclic hydrocarbons, saturated and unsaturated alcohols, glycols and carbonyl compounds. No personalities are mentioned. References accompany each article.

Problems in the Theory of the Structure (Cont.) SOV/4583	
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DOMNIN, N.A.

A.E.Fayorakii, 1860-1945: apropos of the one hundredth anniversary of his birth. Analele chimie 15 no.4:151-165 O-D '60. (EEAI 10:3) (Favorskii, Alexei Efgrafovich) (Chemists, Russian)

5.3610

78262 S6V/79**-3**0-**3-16/69** 

AUTHORS:

Domnin ... N. A. .. Kolimatoly. R. Ch.

TITLE:

Investigation of the Polymethylene Rings. XXXIV. Investigation of the Absorption Spectra of Dibenzosuberane-6,7-dione Monohydrazone and Benzil

Monohydrazone

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3,

pp 799-805 (USSR)

ABSTRACT:

The ultraviolet spectra of the compounds investigated are shown in Table 1. The infrared spectra of the same compounds in CHCl<sub>3</sub> are shown in Table 2. On the basis of the obtained spectra it was established that the dibenzosuberane-6,7-dione monohydrazone can exist in the form of a hydrazone and does not have any tautomeric properties. The cis-configuration of

dibenzosuberane-6,7-dione monohydrazone was confirmed by its infrared spectrum and anticonfiguration was suggested for dibenzosuberane-6,7-dione monooxime.

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Investigation of the Polymethylene Mings. XXXIV

78262 SOV/79-30-3-16/69

The shift of the absorption band of the keto group in monohydrazones was explained by its stereochemistry and the possible existence of a chelate ring. There are 3 figures; 2 tables; and 17 references, 5 Soviet, 4 U.K., 4 U.S., 2 German, 1 Dutch, 1 Canadian. The The 5 U.S. and U.K. references are: Rasmunssena, R. S., et al., coll., J. Am. Chem. Soc., 71, 1068 (1949); Cromwell, N. H., et al., J. Am. Chem. Soc., 71, 3337 (1949); Leonard, N. J., et al., J. Am. Chem. Soc., 77, 5078 (1955); Hadzi, D., J. Chem. Soc., 1956, 2143; Leonard, N. J., et al., J. Am. Chem. Soc., 71, 2997 (1949).

ASSOCIATION:

Leningrad State University (Leningradskiy gosudarst-

vennyy universitet)

SUBMITTED:

December 30, 1958

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Card 3/4

			1 12	30	V/3-16/69
Table : (III), (	. Abadi (IV), (Vi	i J	kima o	l'Compo	unds (~), (II),
FORMULA	DF CONIPOUND	*altge	l og x	Alm I	Leg x
0.2	(1)	245	\$,6194	348	3,84
C <sub>0</sub> H <sub>5</sub> C—CC <sub>0</sub> H <sub>5</sub> # # O NNH <sub>2</sub>	(10)	253	4.05	295	4.05
C <sub>6</sub> H <sub>5</sub> CCC <sub>6</sub> H <sub>5</sub>    "      H <sub>2</sub> NN    NNH <sub>2</sub>	(iV)	275	4.39		
С <sub>6</sub> Н <sub>5</sub> СН — СС <sub>0</sub> Н <sub>5</sub>	(VI)	250	3,40		
	(11)	275	4.08	-350	2.4

18 9 7 SOV/1 30-7-16/69

Table 2. Anacy, it is Ben a of Compounds (I), (II), (III), (IV), (VI) in Chloroform Solutions (cm<sup>-1</sup>).

1					
, and the second	0 11 (1)	(111)	GHZ TOGUS HANN XXHZ (IV)	Callacit - CCallacit - CCallac	O NOH
мп	∫ 3340 greens 3340 were.	3398 sirona 3295 sirona	3311 sicous. 3268 mesa	•	•
911	3140 m om	3196 50004	3190 news-1		3200 BROAD
Ca +O	1620 strong (1607)	1647 to rend (1627)			1665 STRONG (1674)
di di	1604:meas	1607 Steering	1620 sircus	1610 strong	1664 Strong
ΦC= C==N	1543 stein.	1565 517 000,	1587 strand 1565 wreek	1550 1560 этком.	~1573 ~1544
<b>o</b>	~1522 1484	1492 St Com.	1522 WEAK	1492 STRONG	1529 megivit 1502 <sub>seke</sub> uc,

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5.3610

77399

sov/79-30-1-60/78

**AUTHORS:** 

Domnin, N. A., Kolinskiy, R. Ch.

TITLE:

Investigations of Polymethylene Rings. XXXIII.

Concerning the Reaction Between Dibenzosuberane-6,7-

dione and Hydrazine

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 270-275

(USSR)

ABSTRACT:

This is a continuation of investigations of polymethylene rings. A short review of the previous work in this field is given. Synthesis of dibenzo-suberane-6,7-dione (I) is described. (I) was obtained previously by J. Rigaudy and L. Nedelec

(C. r., 236, 1287, 1953) but the condtions of reaction were not given. The authors of this article describe the preparation of (I) as follows: 0.05 M solution of SeO<sub>2</sub> in aqueous acetic acid was added

(dropwise in 1.5 hour) to the boiling mixture of dibenzosuberone-6 and glacial acetic acid, then

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Investigations of Polymethylene Rings. XXXIII.

77399 SOV/79-30-1-60/78

boiled for 8 hours and left overnight. After filtering, concentrating, and cooling, yellow crystals of (I) (36%), mp 162-164°, were obtained. An alcoholic or acetic acid solution of (I) reacts with propanolic solution of hydrazine hydrate to form monohydrazone (II) (65%), mp 131-132°.

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An attempt to prepare a dihydrazone of (I), according to J. van Alpen (Rec. trav. chim., 54, 443, 1935), lead to the formation of dihydropyrazine (IV) of (I) mp

Investigations of Polymethylene Rings. XXXIII.

77399 SOV/79-30-1-60/78

130-1330 (from alcohol). The latter is not changed by the action of hydrazine. (II) and (III) were obtained for the first time.

It was found that (II) does not react with an ether solution of diazomethane, does not give a positive test for enolic hydroxyl, and is insoluble in alkali; this disproves the existence of its tautomeric form (IIa), as was first assumed. As an explanation of the chemical properties of (II), the authors suggested that it has a syn-hydrazonic structure. This suggestion is confirmed by the

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Investigations of Polymethylene Rings. XXXIII.

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similarities of the properties of (II) and \$\beta\$-mono-hydrazone of camphorquinone (III). Syn-configuration of the latter was established by Han-Cning Yuan and Kou-Ching Hua (J. Chinese Chem. Soc., 7, 76, 1940). Inability of (I) to formadihydrazone indicates that molecule has a chelate structure. A crystalline compound with mp 245-247° was obtained unexpectedly by the reaction between (I) and dimethylhydrazine. Apparently it is a product of condensation of (I), but it requires further study. There are 12 references, 1 U.S., 1 U.K., 1 Swiss, 1 French, 1 Chinese, 1 Dutch, 6 Soviet. The U.S. and U.K. references are: A. T. Blomquist a. others; J. Am. Chem. Soc., 73, 5510 (1951); E. de Barry Barnett a. others, J. Chem. Soc., 1927, 504.

ASSOCIATION:

Leningrad State University (Leningradskiy gosudarstvennyy universitet)

SUBMITTED:

December 30, 1958

2209, 1153, 1195

S/079/60/030/008/009/012/XX B001/B066

**AUTHORS:** 

Domnin, N. A., Isakova, S. A., and Kolinskiy, R. Ch.

TITLE:

Investigations in the Field of Polymethylene Rings. XXXV. Synthesis of Dihydrazones of Cyclohexanedione-1,2 and

Hexanedione-2,3

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 8, pp. 2480-2484

TEXT: The purpose of the present work was to synthesize the dihydrazone of cyclohexanedione (I) which had been characterized incompletely by N. A. Domnin and N. S. Glebovskaya (Ref. 1). For comparison, also the synthesis of the acyclic dihydrazone of hexanedione-2,3 (II) was performed.

$$cH_3 - \frac{c}{c} - \frac{c}{c} - \frac{cH_2}{cH_2} - \frac{cH_3}{cH_3}$$

85712

Investigations in the Field of Polymethylene Rings. XXXV. Synthesis of Dihydrazones of Cyclohexanedione-1,2 and Hexanedione-2,3

S/079/60/030/008/009/012/XX B001/B066

The modification of the conditions of synthesis described in Ref. 1 proved to be ineffective. When adding hydrazine to cyclohexanedione-1.2, the reaction product was always an orange oil which did not crystallize. Only after a storage of several months a small number of crystals were formed which, after separation from the oil and recrystallization, were identified to be the dihydrazone of the ketazine of cyclohexanedione-1,2 (III). Only in one case a large dihydrazone (I) crystal separated out (Ref. 1). Compound (III) is probably formed according to scheme 1. The cyclohexanedione-1,2 (IV) has an enol form (Ref. 2). As the other intermediates could not be separated, their structural formulas are only hypothetical. The formation of dihydrazone (I) seems little likely under these conditions, all the more since it could be separated in one experiment only. In view of these facts, the authors changed the order in which the reagents are added. and obtained good dihydrazone (I) yields. It was difficultly crystallized from the reaction mass which represented a supersaturated solution of (I) in alcohol, water, and hydrazine. Dihydrazone (I) is easily soluble in

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Investigations in the Field of Polymethylene Rings. XXXV. Synthesis of Dihydrazones of Cyclohexanedione-1,2 and Hexanedione-2,3

S/079/60/030/008/009/012/XX B001/B066

these solvents, so that no crystals could form. Crystallization was only induced by inoculation and by recrystallization from benzene. The dihydrazone structure was confirmed by ultimate analysis and determination of the molecular weight. It was not possible to prove the presence of a C --- N double bond by spectrum analysis of dihydrazone (I), as its intensity in the infrared spectrum is low; but a primary amino group and the absence of a keto group were confirmed in this way. The dihydrazone of hexanedione-2,3 (II) was synthesized by the method of Ref. 3 to compare its properties with those of dihydrazone (I), and to see whether steric hindrances were the cause of the difficult synthesis of the latter. The investigation showed that in the formation of both dihydrazones, (I) and (II), no steric hindrances are observed. This fact was already confirmed when studying the models of these compounds. There are 8 references: 6 Soviet, 1 Italian, and 1 German.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

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## "APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410910020-4

85712

Investigations in the Field of Polymethylene Rings, XXXV. Synthesis of Dihydrazones of Cyclohexanedione-1,2 and Hexanedione-2,3

S/079/60/030/008/009/012/XX B001/B066

 $\chi$ 

SUBMITTED: July 27, 1959

Card 4/4

FAVORSKIY, Aleksey Yevgrafovich, khimik, prof., akademik, Geroy Sotsialisticheskogo Truda [1860-1845]; FAVORSKAYA, T.A., prof. [translator]; DANILOV, S.N., otv. red.; DOMNIN, N.A., prof., doktor khim. nauk, red.;
MURASHOV, G.M., kand. khim. nauk, red.; KAPLAN, M.Ya., red.izd-va;
KONDRAT'IEVA, M.N., tekhn. red.

[Akademician Aleksei Evgrafovich Favorskii; selected works] Izbrannye trudy. Moskva, Izi-vo Akad. nauk SSSR, 1961. 790 p.
(MIRA 14:11)

1. Chlen-korrespondent AN SSSR (for Danilov). (Favorskii, Aleksei Evgrafovich, 1860-1945) (Chemistry, Organic)

2220:1

S/079/61/031/006/001/005 D223/D305

5.3610

2209, 1153, 1375

\* . . .

AUTHORS:

Domnin, N.A. and Kolinskiy, R.Ch.

TITLE:

On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 6, 1961, 1799-

1805

TEXT: In 1936 it was shown that an attempt to introduce a triple bond into a seven-membered ring resulted in the formation of hydrocarbon with an allene bond inaseven-membered ring, i.e. cycloheptadiene - 1.2 (Ref 1: A.Ye. Favorskiy, M.F. Shostakovskiy, N.A. Domning Zhokh, 6, 720 (1936)), and not as expected cycloheptene. The formation of cycloheptadiene - 1.2 was explained by the isomeric transformation at the moment of formation of cycloheptene, i.e. its inability for longer existence. While it has been established that cyclic polymethylenes with triple bond are able to exist in 8-membered and higher rings, the same has remained to be discovered for 7-membered rings. The authors' Card 1/7

22201

S/079/61/031/006/001/005 D223/D305

On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene

previous work (Ref 5: ZhOKh, 30, 270, 799 (1960)), as well as the current article investigate this problem, especially the study of the reaction of hydrazine with cycloheptadiene - 1.2

· (I) This reaction depending on the conditions under which the reaction takes place, gives different products: dihydrazon cycloheptadiene - 1,2

and resin which is probably the result of ketazine polymerization. The best method of preparing dihydrazone (II) is addition of diketone (I) to the cooled alcoholic solution (to 0°C) of hydrazine. The important part of the method consists in using an excess of hydrazine. After removing the solvent the reaction mixture is left to crystallize over several weeks; if on the other hand a Card 2/7

phenylhydrazone) cycloheptadion -1.2

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=NNIIC<sub>6</sub>II<sub>2</sub>(NO<sub>2</sub>)<sub>2</sub>

 $=NNIIC_0II_3(NO_2)_2$ 

On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene crystal of dihyrazone (II) is added, the crystallization is complete in a day. The structure of dihydrazone (II) was confirmed by its chemical behavior. In the presence of a sulphuric acid solution of 2.4 -dinitrophenylhydrazine (Ref. 9: R. Shrayner, R. F'yuson, Sistematicheskiy kachestvennyy analiz organicheskikh soyedineniy (The systematic qualitative analysis of crganic compounds), M., 173 (1950)). dihydrazon (II) hydrolyzes into bis (2.4 -dinitrophenylhydrazone) cyclopentadione - 1.2 (IV) and hydrazine sulphate. This reaction is a useful way of determining the nature of different hydrazones since it does give detone and hydrazine. The structure of ketazine (III) was established by the analysis of infra-red spectrum. The pressure of NH2-group (frequency 3371, 3305, 3266 cm<sup>-1</sup>) was detected and the absence of C=0 groups (the absence of absorption maximum in the region 1900-1500 cm<sup>-1</sup>). Reaction with sulphuric acid solution of 2.4

-dinitrophenylhydrazine, after heating, yieled bis (2.4 -dinitro-

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(IV)

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On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene

and hydrazine sulphate. The ketazine (III) with picric acid forms hydrazine picrate and with benzoylchloride (Schotten-Bauman) N,N<sup>1</sup> -dibenzoylhydrazine.

C6H5CONHNHCOC6H5

· (V)

Test consideration of the space structure of cycloheptadion -1.2 has shown that it alternates in chair and boat form. The 7-membered ring appears mobile so that the carbonyl group plane as a result of dipole repulsion forms an angle of about 90-100°. Such repulsion acts against the bonding of carbonyl groups and hence, in the reaction with hydrazine they behave as free carbonyl groups. Test considerations have shown the absence of space barriers in a diketone (I) and dihydrazond (II) molecule. The water formed during reaction in cases of experiments with benzene and toluene was removed from the reaction medium in the form of azeotrope with the solvent. In the case of experiments carried out in ether, the Card 4/7

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S/079/61/031/006/001/005 D223/D305

On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene

water was combined by addition to the reaction mixture of calcined MgSO<sub>4</sub>. The course of oxidation was followed by measuring the removed water, the evolved nitrogen and, hence, the percentage composition of nitrogen in the product of reaction determined. The last method proved very reliable. The oxidation of dihydrazone (II) (77 gms) was also carried out in ether, in a autoclave at 130-150°C. The oxidation was found to be incomplete - the residual resin contained 13% of nitrogen. Immediately after distillation the infra-red spectrum was taken in the region of 2000 cm<sup>-1</sup> (LiF prism). The product from the trap after removing traces of ether showed a maximum absorption in the region of 1921-1925 cm<sup>-1</sup> which corresponds to the allene bond. The liquid fraction showed absorption in the region of 2241 and 2218 cm<sup>-1</sup> which according to literature corresponds to the acetylene bond. Beside these, the infra-red spectrum showed the presence of bonds at about 1740 cm (COOH), 1718 cm<sup>-1</sup> (C = O), 1640 cm<sup>-1</sup> (C = C). All fractions decolor-Card 5/7

22201 S/079/61/031/006/001/005 D223/D305

On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene

ized the bromine solution in CCl<sub>4</sub> and darkened on storage. In liquid fractions the presence of \*ketones was detected (by their reaction with 2.4-dinitrophenylhydrazine) and bis (2.4-dinitrophenylhydrazone) cycloheptadione-1.2 (IV) and 2.4-dinitrophenyl-hydrazone subarate. The fractions boiling between 60-100°C. (0.5 mm) were checked for the presence of cycloheptadiene-1.3 by maieic anhydride but no bonding occurred. The fraction boiling at 100-130°C and 135-160°C (0.5 mm) were found to be soluble in hydrochloric acid which indicates the presence of dihydrazone polymerization products. Chemical investigation has shown that dihydrazone oxidation takes place when using benzene and toluene solvent. The corresponding cycloheptene could not be separated and established the presence of polimerization products and formation of organic mercury compounds.

Card 6/7

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S/079/61/031/006/001/005 D223/D30<del>5</del>

On the question of the possibility of existence of a seven-membered ring with the triple bond-cycloheptene

There are 13 references, 6 Soviet-bloc and 7 non-Soviet-bloc. The references to the English-language publications read as follows: A.T. Blomquist, J.Am. Chem. Soc., 73, 5510 (1951); V. Prelog, Helv. Chim. Acta, 35 1598 (1952); F.F. Blicke, J. A,. Chem. Soc., 74, 2924 (1952); J.W. Cook, J. Chem. Soc., 1952, 4416.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (State University of Leningrad)

SUBMITTED: June 6, 1960

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DOMNIN, N.A.; OBESHCHALOVA, N.V.; KOLINSKIY, R. Ch.

Polymethylene rings. Part 37: Transformations of polyhalosubstituted cyclopentane. Zhur.ob.khim. 31 no.8:2768-2773 (MIRA 14:8) Ag 161.

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(Cyclopentane)

DOMNIN, N.A.; GLEBOVSKAYA, N.S.

Some new derivatives of cyclic  $\beta$ -diketones. Zhur.ob.khim. 31 no.10:3481-3483 0 '61. (MIRA 14:10)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova. (Ketone)

BYKOV, Georgiy Vladimirovich; DOMNIN, N.A., otv. red.; IOFFE, V.G., red. izd-va; GUS'KOVA, O.M., tekhn. red.

[History of electron theories in organic chemistry] Istoriia elektronnykh teorii organicheskoi khimii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 422 p. (MIRA 16:7) (Chemistry, Organic) (Electrons)

DOMNIN, N.A.; IVANOVA, L.P.; CHERKASOVA, V.A.

Interaction of asymm-diethylhydrazine with some aliphatic ketones. Zhur. ob. khim. 34 no.7:2116-2118 J1 '64 (MIRA 17:8)

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DOMNIN, N.A.; KURENNAYA, L.N.; CHERKASOVA, V.A.

Polymethylene rings. Part 39: Conversion of 1-chloro-1-cyclohaxene by the action of bromine. Zhur. ob. khim. 34 no.9:2848-2851 3 164. (MIRA 17:11)

1. Leningradskiy gosudarstvennyy universitet.

CESSION NR: AF5008721. 8/0300/05/	/001/003/0611/0611	
THORS: Domnin, N. A. ; Yakisovich, S. I.	18	
TIE: Reaction of C.alkylated B-diketones with unsN. Ndi	eliginviras ires'	<u></u>
OURCE: Zhurnel organicheskoy khimii, v. 1, no. 3, 1965, 611		.2 .15f
OPID TAGS: alkylation		
BETRACT: In continuing their study of monodialkylhydrazones of he authors established that the monodialkylhydrazones of G-met. butyl-acetylacetones are equilibrium mixtures of tautomeric eto-a-hydrazine forms (I, II). They thus differ fundamentally condialkylhydrazones of aliphatic B-diketones with unbranchi	ketohydrazens and from the ng chains, which meric equilibrium ins depends on the	
condialkylhydrazones of disphatic parketones of the condialkylhydrazones of Calkylated parketones in solution of texton of monodialkylhydrazones of Calkylated parketones in solution of the keton of the content of the keton of the condinates. In more polar solvents the content of the keton of the condinates of canal condinates of canal condinates only in the keton of canal condinates.		

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	R'-C-CH(Alk)-C-R" R'-C-C(Alk)-C-R"  O NR". O HNNR".	
	O NNR", O; HNNR",	
Mi	e of the ketogerazone form in the reaction of C-alkylated B-liketon	
was to all all beet be	which ince may be due. appearantly, to storic resculon lie was killen-	
The Partine fort	m between the alkyl and R' and R' radicals. Such reaction is weaker ydrazone form, and this compensates to some extent the impossibility	ITAG TAN STATE
of mimlement	ary stabilization of this form because of formation of the hydrogen	
bord, sa taka	s place in the kato-n-hydrazine form. Monodimethyl- and mono 116th-	
ylhydrazones	of 2-acetyl- and 2-benzoylcyclohexanes, which may be considered	
	) are a contract and a she take a backmanding form (TTT)   Northern	e) +
the special	Saliketones, exist only in the keto-n-hydrazine form (III). Ration remains of the cyclohexene ring excludes the week sterio resolion	sly ir.
the special the keto-n-by	S-diketones, exist only in the keto-n-hydrazine form (DI). Reviou geometry of the cyclohexene ring excludes the week steric resction drazine form, which characterizes the derivatives of C-alkylated	sly ir.
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the special the keto-n-by $\beta$ -diketones.	S-diketones, exist only in the keto-n-hydrazine form (DI). Reviou geometry of the cyclohexene ring excludes the week steric resction drazine form, which characterizes the derivatives of C-alkylated	31x 31x

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EWT(n)/EPF(c)/EPR/EWP(3)/T/EWA(c) 51073-65 UR/0366/65/001/004/0653/0666 HH/JH/JHD/RM ACCESSION NR: AP5011189 AUTHORS: Domnin, N. A.; Yakimovich, S. I. TITLE: Reaction of beta dicarbonyl compounds with hydrazines. of aliphatic beta diketones with uns-N,N-dialkylhydrazines Zhurnal organicheskoy khimii, v. 1, no. 4, 1965, 658-666 TOPIC TAGS: aliphatic compound, IR spectrum, nuclear magnetic resonance, chelate ABSTRACT: The reaction of aliphatic beta ketones with direthyl hydrazine and diethyl hydrazine was studied by investigating reactions with three symmetrical beta diketones of the type RCOCH\_COR (R = CH3, C2H5, 1so-C4H9) and three unsymmetrical forms of the type  $CH_3COCH_2COR^n$  ( $R^n = C_2H_5$ , iso- $C_4H_9$ , tert- $C_4H_5$ ). these react readily with one diskyl hydrazine molecule. Infrared and nuclear magnetic resonance spectra show that the reaction products having one dialkyl hydrazine molecule have keto-n-hydrazine cis-chelate structure with a strong incramolecular hydrogen bond. It is shown that the possibility of adding a second dialkyl hydrazine molecule depends chiefly on the storio barriers for access of the nucleophilic rangent. Two molecules of dimethyl hydranics of the